

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

(a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,

(b) the output polarizer angle γ is at an angle of 135° minus the twist angle of the said liquid crystal cell, and

(c) the product of the cell gap d and birefringence Δn has a value of between 1.1 and 1.5 microns.

2. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

(a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,

(b) the output polarizer angle γ is at an angle of 135° minus the twist angle of the said liquid crystal cell, and

(c) the product of the cell gap d and birefringence Δn has a value of between 0.6 and 1.0 microns.

3. (Original) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

(a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,

(b) the output polarizer angle γ is at an angle of 45° minus the twist angle of the said liquid crystal cell, and

(c) the product of the cell gap d and birefringence Δn has a value of between 0.9 and 1.3 microns.

4. (Withdrawn) A liquid crystal display comprising an input polarizer, a rear reflector, and a liquid crystal cell in between said input polarizer and said reflector characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

(a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,

(b) the twist angle of the said liquid crystal cell has a value in between -60° and 60° , and

(c) the product of the cell gap d and birefringence Δn has a value of between 0.45 and 0.65 microns.

5. (Original) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 65° and 85° ,
- (c) the output polarizer angle γ is between 20° and 40° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 1.1 and 1.5 microns.

6. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 80° and 100° ,
- (c) the output polarizer angle γ is between 35° and 55° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 1.1 and 1.5 microns.

7. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 80° and 100° ,
- (c) the output polarizer angle γ is between -35° and -55° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 0.9 and 1.3 microns.

8. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 120° and 140° ,
- (c) the output polarizer angle α is between 80° and 100° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 1.1 and 1.5 microns.

9. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35 ° and 55 ° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 65 ° and 85 °,
- (c) the output polarizer angle γ is between 20 ° and 40 ° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 0.7 and 0.9 microns.

10. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35 ° and 55 ° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 80 ° and 100 °,
- (c) the output polarizer angle γ is between 35 ° and 55 ° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 0.7 and 0.9 microns.

11. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 80° and 100° ,
- (c) the output polarizer angle γ is between -35° and -55° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 1.0 and 1.2 microns.

12. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between 80° and 100° ,
- (c) the output polarizer angle γ is between 35° and 55° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 0.75 and 0.95 microns.

13. (Withdrawn) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell in between said input and output polarizers characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between -5° and 15° ,
- (c) the output polarizer angle γ is between -35° and -55° relative to the input director of the said liquid crystal cell, and
- (d) the product of the cell gap d and birefringence Δn has a value of between 0.9 and 1.0 microns.

14. (Withdrawn) A liquid crystal display comprising an input polarizer, a rear reflector, and a liquid crystal cell in between said input and reflector characterized by a twist angle, a cell thickness and a birefringence of the liquid crystal, such that

- (a) the input polarizer angle α is between 35° and 55° relative to the input director of the said liquid crystal cell,
- (b) the twist angle of the said liquid crystal cell is between -5° and 15° ,
and
- (c) the product of the cell gap d and birefringence Δn has a value of between 0.4 and 0.8 microns.

15. (Currently Amended) A liquid crystal display as claimed in claim [[1]] 5 wherein the input polarizer angle is $\alpha \pm N\pi$ where N can be any positive or negative integer.

16. (Currently Amended) A liquid crystal display as claimed in claim [[1]] 5 wherein the output polarizer angle is $\gamma \pm N\pi$ where N can be any positive or negative integer.

17. (New) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell between said input and output polarizers characterized by a twist angle, an applied voltage and a cell gap, such that

(a) said liquid crystal display produces an output having a color that varies in accordance with an applied voltage;

(b) said twist angle is less than 100° ; and

(c) said cell gap is less than 8 microns.

18. (New) A liquid crystal display comprising an input polarizer, an output polarizer, and a liquid crystal cell between said input and output polarizers characterized by a twist angle, an applied voltage, a birefringence and a cell gap, such that

(a) said liquid crystal display produces an output having a color that varies in accordance with an applied voltage;

(b) said twist angle is less than 100° ; and

(c) the product of said birefringence and said cell gap is no greater than
1.3 μm .